FIG 1

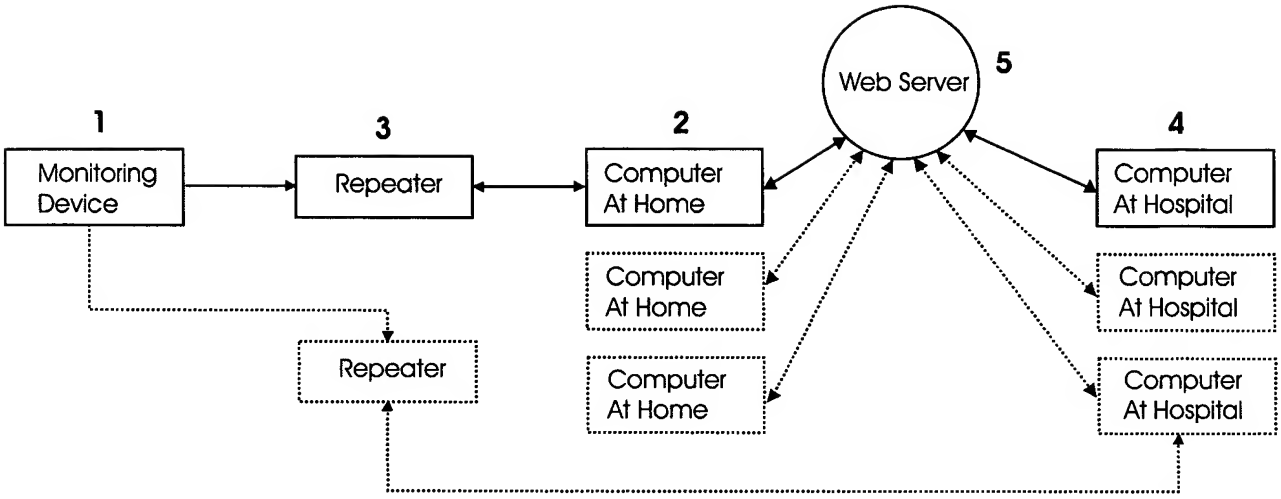

Web Server
5
1
Monitoring Device
3
Repeater
2
Computer At Home
4
Computer At Hospital
Computer At Home
Computer At Hospital
Repeater
Computer At Home
Computer At Hospital

FIG 2

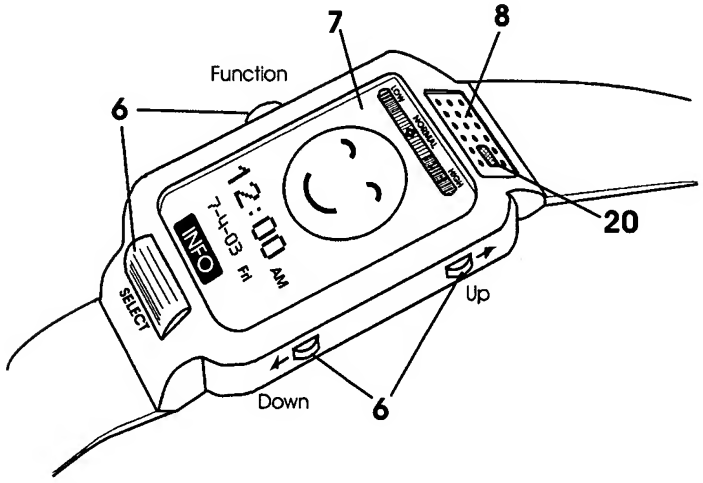

7
8
Function
6
12:00
7-4-03
INFO
SELECT
20
Up
Down
6

FIG 3

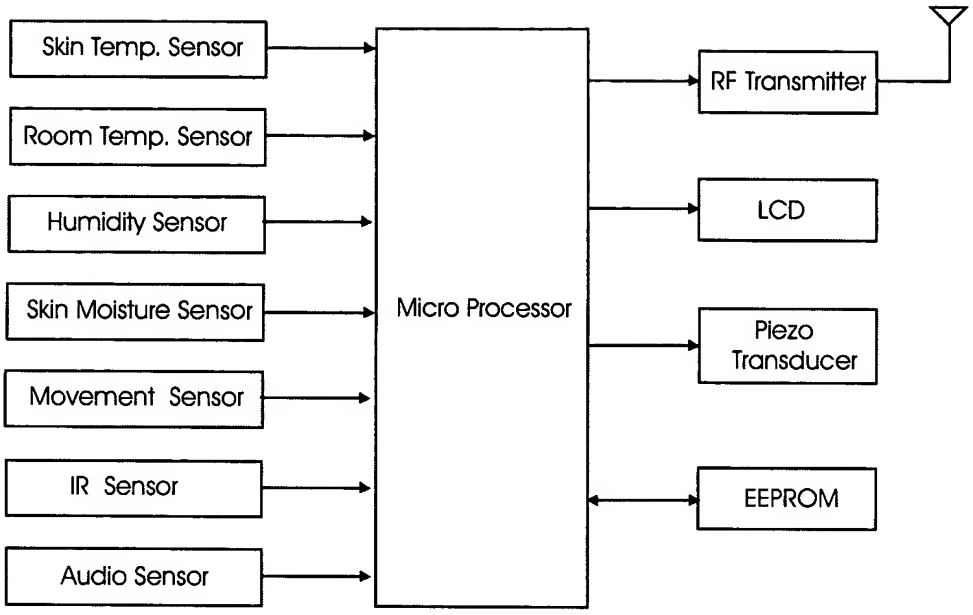
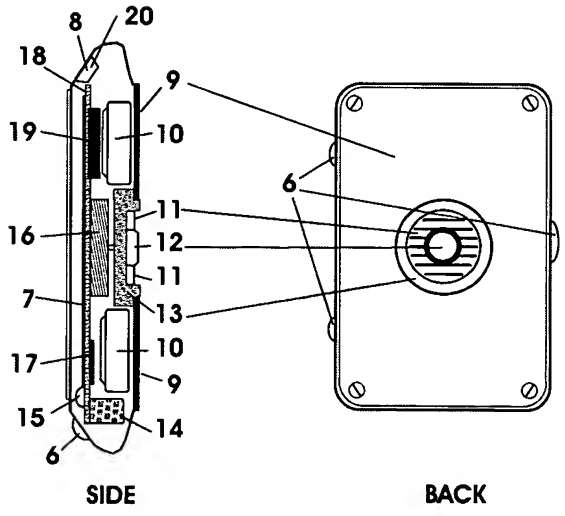


FIG 4



6 : Switches
7 : LCD Display
8 : Humidity Sensor
9 : Back Cover
10 : Battery
11 : Moisture Sensor
12 : Skin Temp. Sensor
13 : Heat Isolation Material
14 : Movement Sensor
15 : IR Sensor
16 : ASIC (Application Specific Integrated Circuit)
CPU / EEPROM / Built in Room Temp. Sensor
17 : RF Circuit
18 : PCB
19 : Audio Piezo Transducer
20 : Audio Sensor

FIG 5

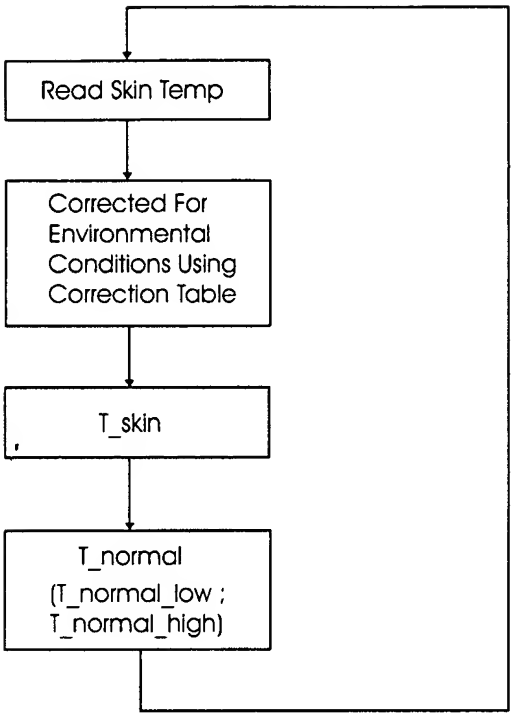

Read Skin Temp
Corrected For Environmental Conditions Using Correction Table
T_skin
T_normal (T_normal_low ; T_normal_high)

FIG 6

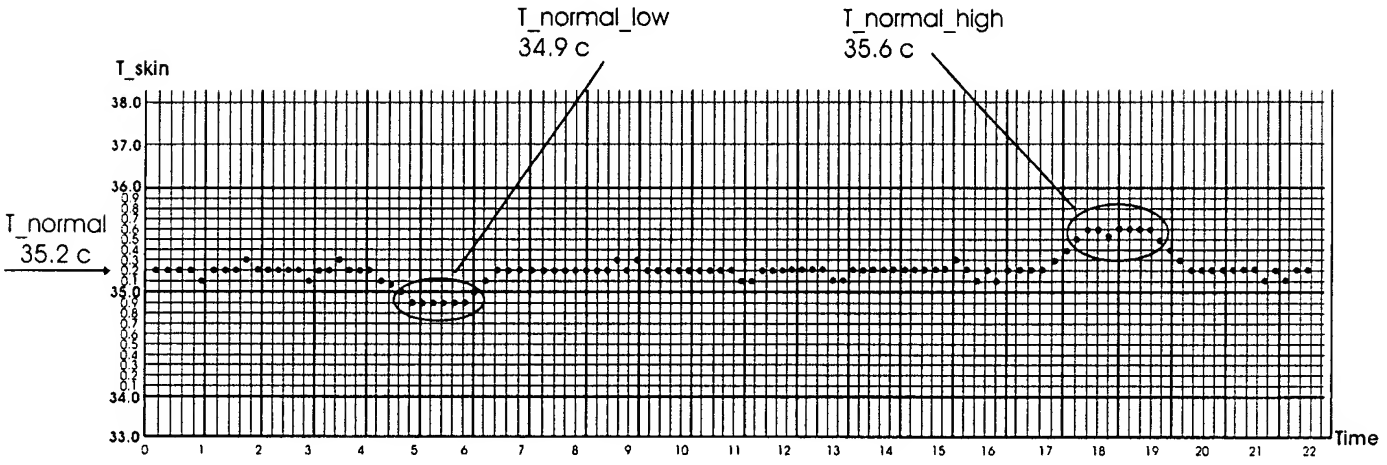

T_normal_low
34.9 c
T_normal_high
35.6 c
T_skin
T_normal
35.2 c
38.0
37.0
36.0
35.0
34.0
33.0
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
Time

FIG 7

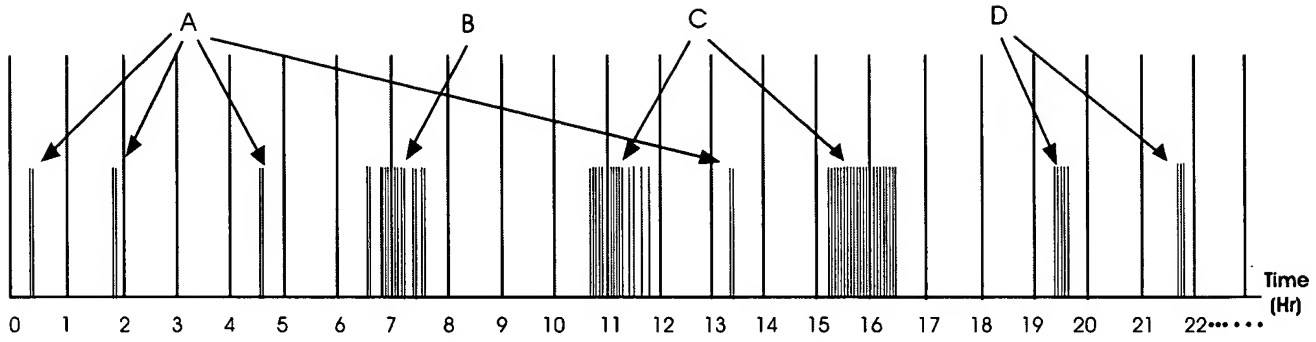

A
B
C
D
Time
(Hr)
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

FIG 8

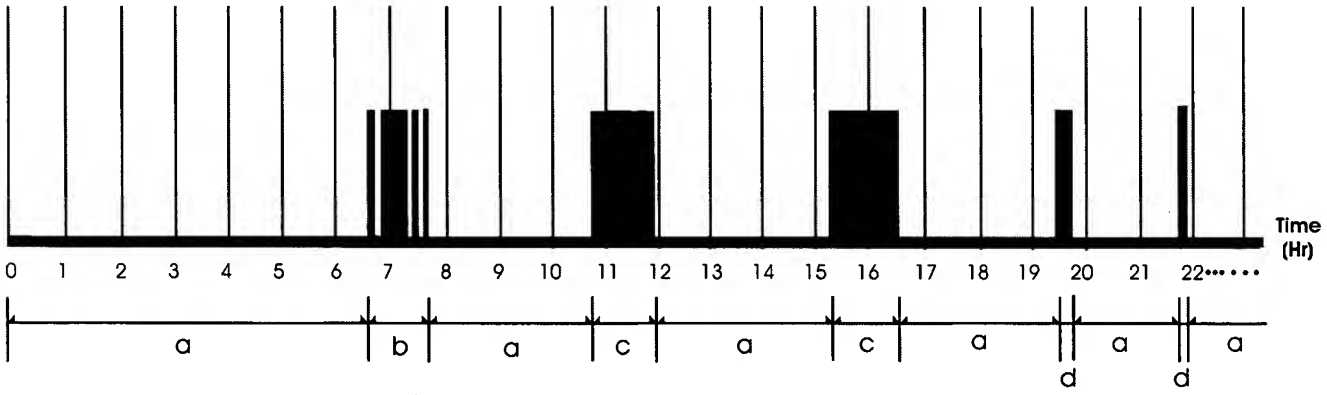

Time
(Hr)
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
a
b
a
c
a
c
a
d
a
d
a

FIG 9

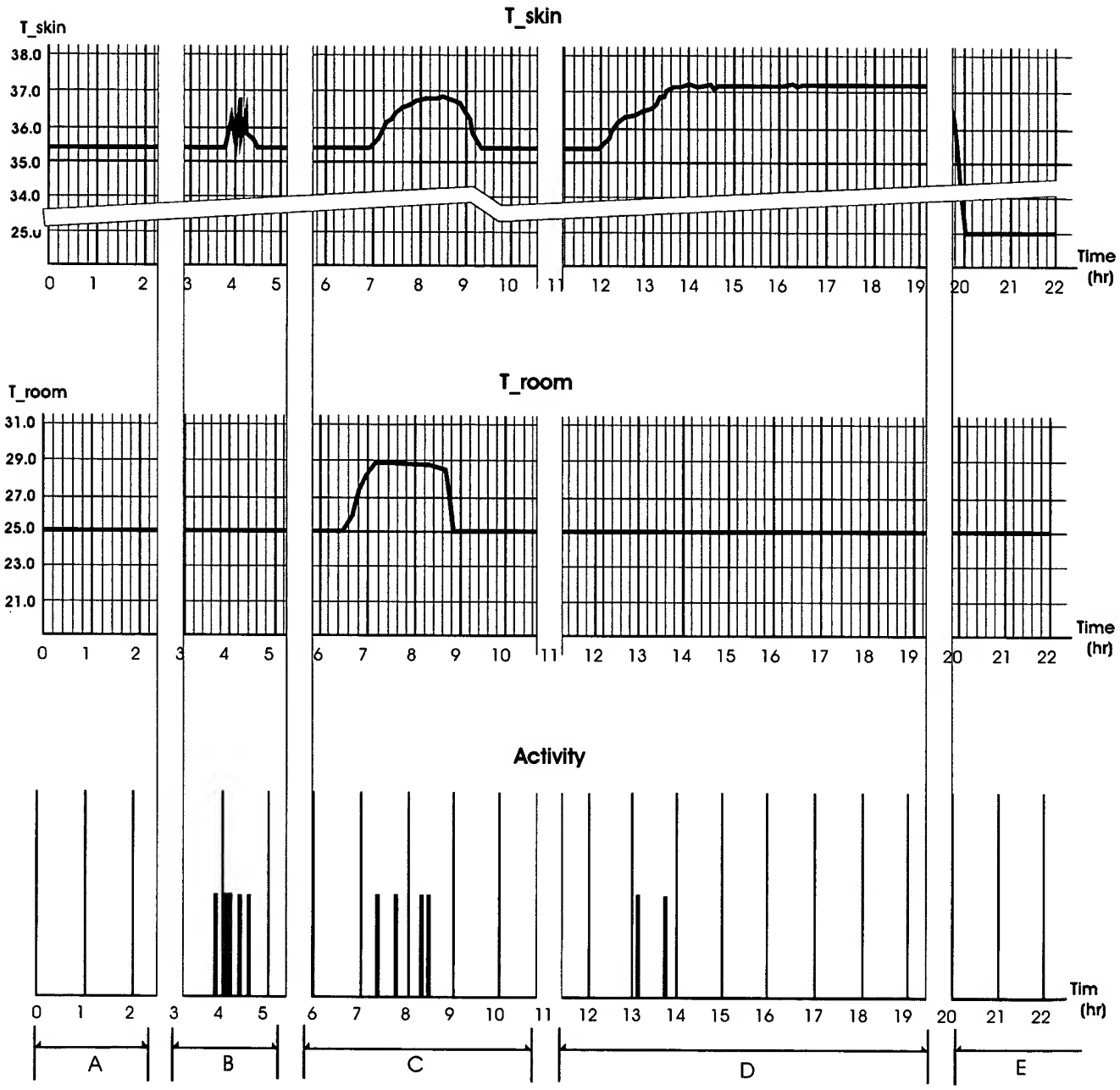

T_skin
38.0
37.0
36.0
35.0
34.0
25.0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
Time (hr)
T_room
31.0
29.0
27.0
25.0
23.0
21.0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
Time (hr)
Activity
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
Tim (hr)
A
B
C
D
E

FIG 10

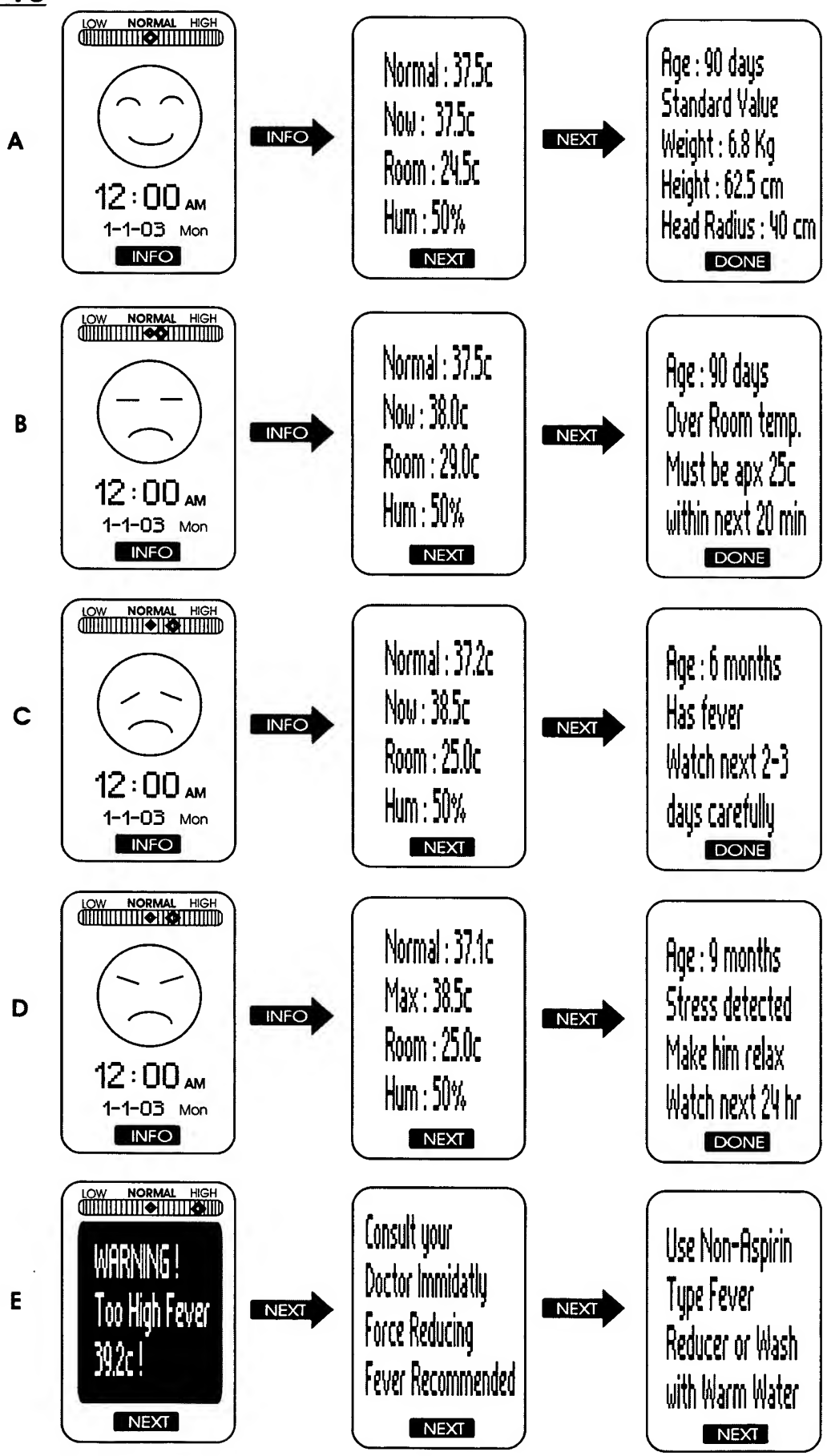

A
LOW NORMAL HIGH
12 : 00 AM
1-1-03 Mon
INFO
INFO
Normal : 37.5c
Now : 37.5c
Room : 24.5c
Hum : 50%
NEXT
NEXT
Age : 90 days
Standard Value
Weight : 6.8 Kg
Height : 62.5 cm
Head Radius : 40 cm
DONE
B
LOW NORMAL HIGH
12 : 00 AM
1-1-03 Mon
INFO
INFO
Normal : 37.5c
Now : 38.0c
Room : 29.0c
Hum : 50%
NEXT
NEXT
Age : 90 days
Over Room temp.
Must be apx 25c
within next 20 min
DONE
C
LOW NORMAL HIGH
12 : 00 AM
1-1-03 Mon
INFO
INFO
Normal : 37.2c
Now : 38.5c
Room : 25.0c
Hum : 50%
NEXT
NEXT
Age : 6 months
Has fever
Watch next 2-3
days carefully
DONE
D
LOW NORMAL HIGH
12 : 00 AM
1-1-03 Mon
INFO
INFO
Normal : 37.1c
Max : 38.5c
Room : 25.0c
Hum : 50%
NEXT
NEXT
Age : 9 months
Stress detected
Make him relax
Watch next 24 hr
DONE
E
LOW NORMAL HIGH
WARNING !
Too High Fever
39.2c !
NEXT
NEXT
Consult your
Doctor Immidatly
Force Reducing
Fever Recommended
NEXT
NEXT
Use Non-Aspirin
Type Fever
Reducer or Wash
with Warm Water
NEXT

FIG 11

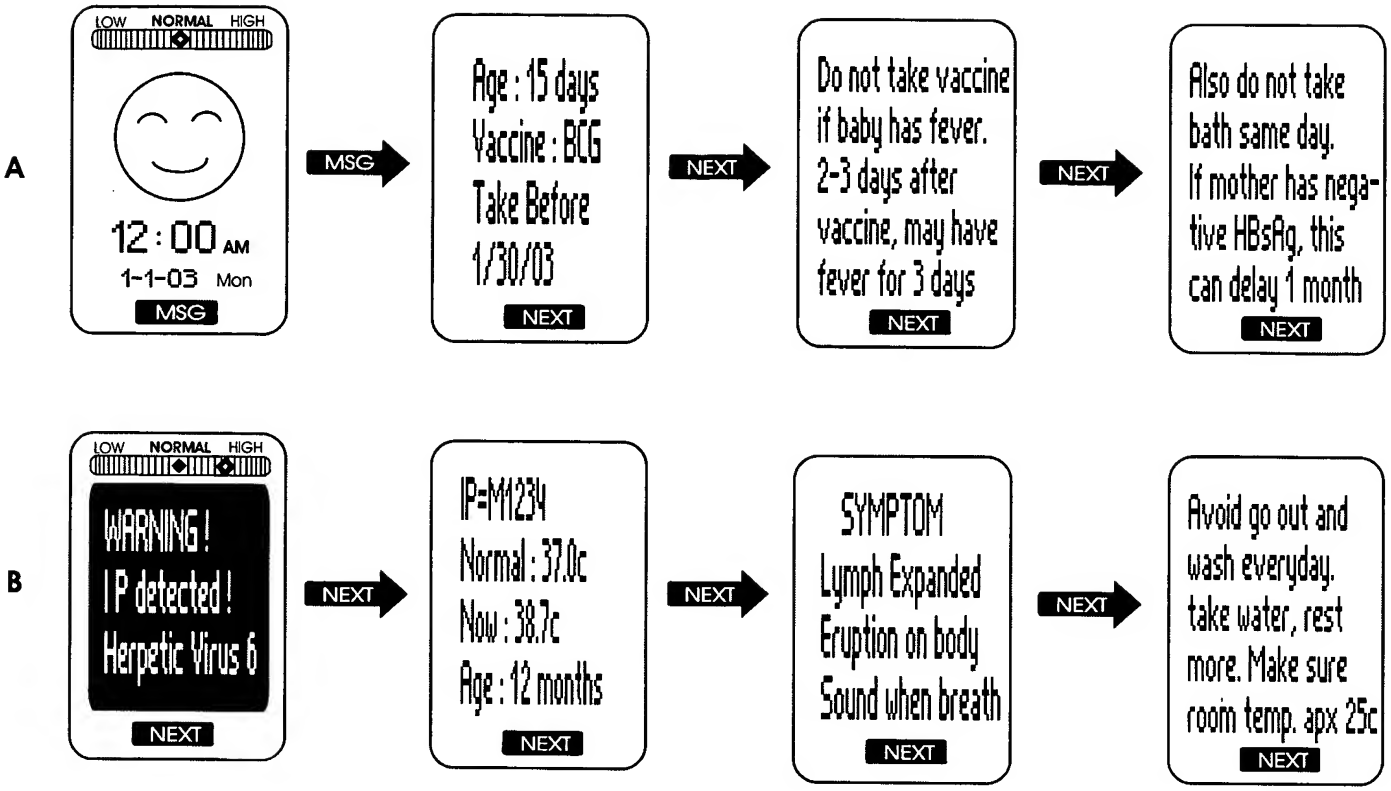
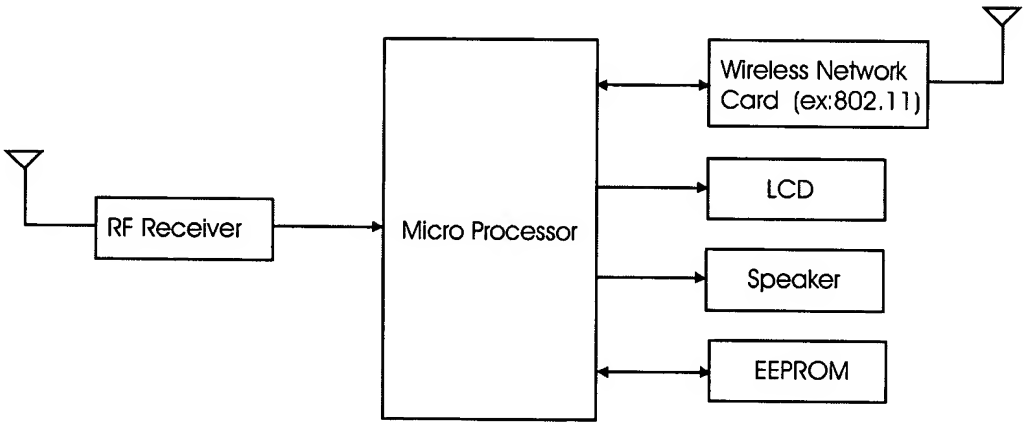

A
LOW NORMAL HIGH
12 : 00 AM
1-1-03 Mon
MSG
MSG
Age : 15 days
Vaccine : BCG
Take Before
1/30/03
NEXT
NEXT
Do not take vaccine if baby has fever.
2-3 days after vaccine, may have fever for 3 days
NEXT
NEXT
Also do not take bath same day.
If mother has negative HBsAg, this can delay 1 month
NEXT
B
LOW NORMAL HIGH
WARNING !
IP detected !
Herpetic Virus 6
NEXT
NEXT
IP=M1234
Normal : 37.0c
Now : 38.7c
Age : 12 months
NEXT
NEXT
SYMPTOM
Lymph Expanded
Eruption on body
Sound when breath
NEXT
NEXT
Avoid go out and wash everyday.
take water, rest more. Make sure room temp. apx 25c
NEXT

FIG 12


RF Receiver
Micro Processor
Wireless Network Card (ex:802.11)
LCD
Speaker
EEPROM